

How You Can Buy AT&T, T-Mobile, and Sprint Real-Time Location Data on the Black Market

Joseph Cox, DEF CON 27

“There is a new bail bond database
company that is geo tracking people.
People are reselling o the wrong people.
Call me [REDACTED]”

Id rather explain it telephonically. I know a ton about the subject and the industry. Many peoples rights are being violated

Id rather explain it telephonically. I know a ton about the subject and the industry. Many peoples rights are being violated

We'd like to test the ping— if I give you one of our own US numbers, would that work to test?

Id rather explain it telephonically. I know a ton about the subject and the industry. Many peoples rights are being violated

We'd like to test the ping— if I give you one of our own US numbers, would that work to test?

If you are paying the 300 sure

Id rather explain it telephonically. I know a ton about the subject and the industry. Many peoples rights are being violated

We'd like to test the ping— if I give you one of our own US numbers, would that work to test?

If you are paying the 300 sure

So the number is [REDACTED]. When do you think it will be doable?

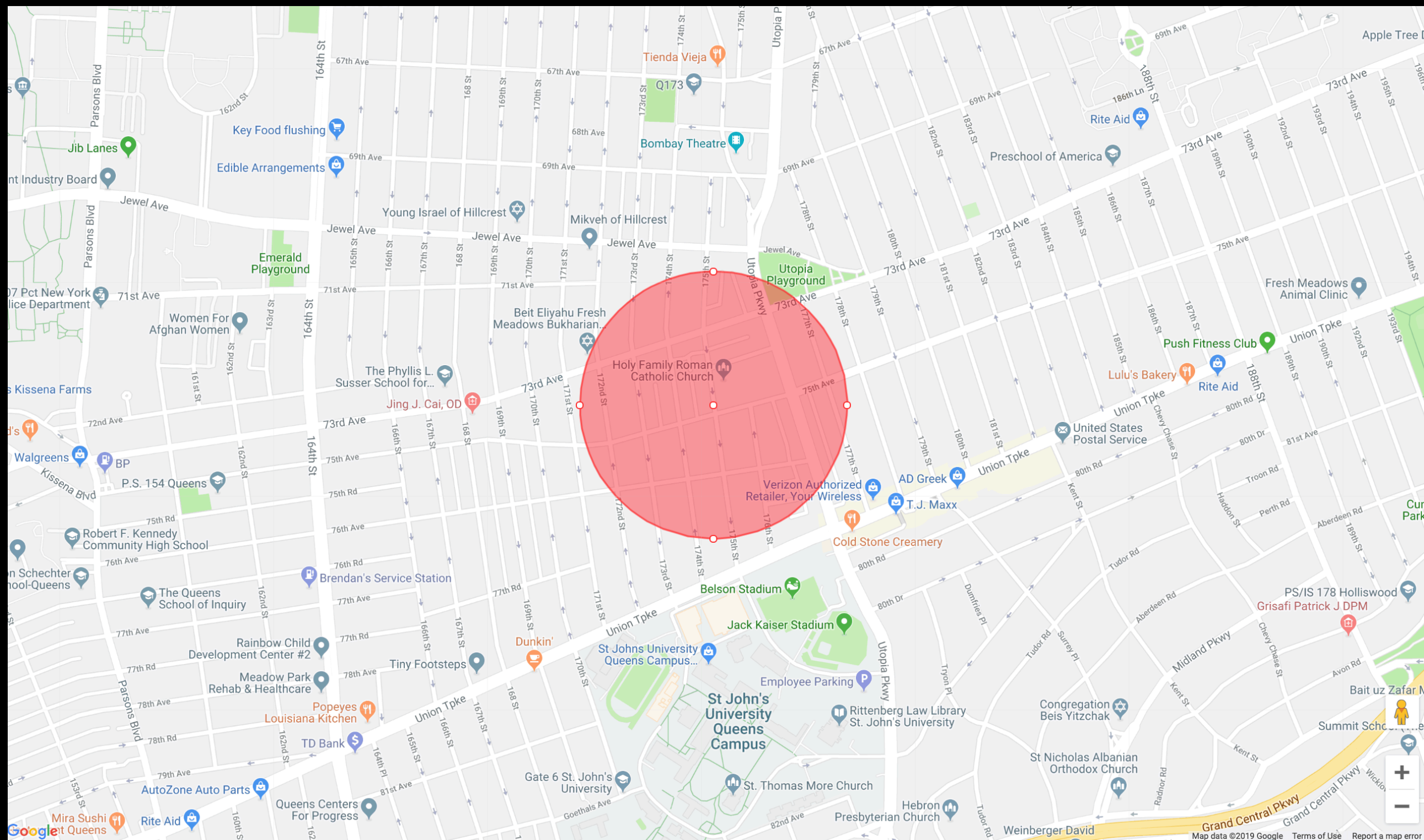
Id rather explain it telephonically. I know a ton about the subject and the industry. Many peoples rights are being violated

We'd like to test the ping— if I give you one of our own US numbers, would that work to test?

If you are paying the 300 sure

So the number is [REDACTED]. When do you think it will be doable?

Ok let me figure this out



MOTHERBOARD

You know more about location data, or anything else you think should be published?

Signal: +44 20 8133 5190

Wickr: josephcox

Jabber: jfcov@jabber.ccc.de

Email: joseph.cox@vice.com

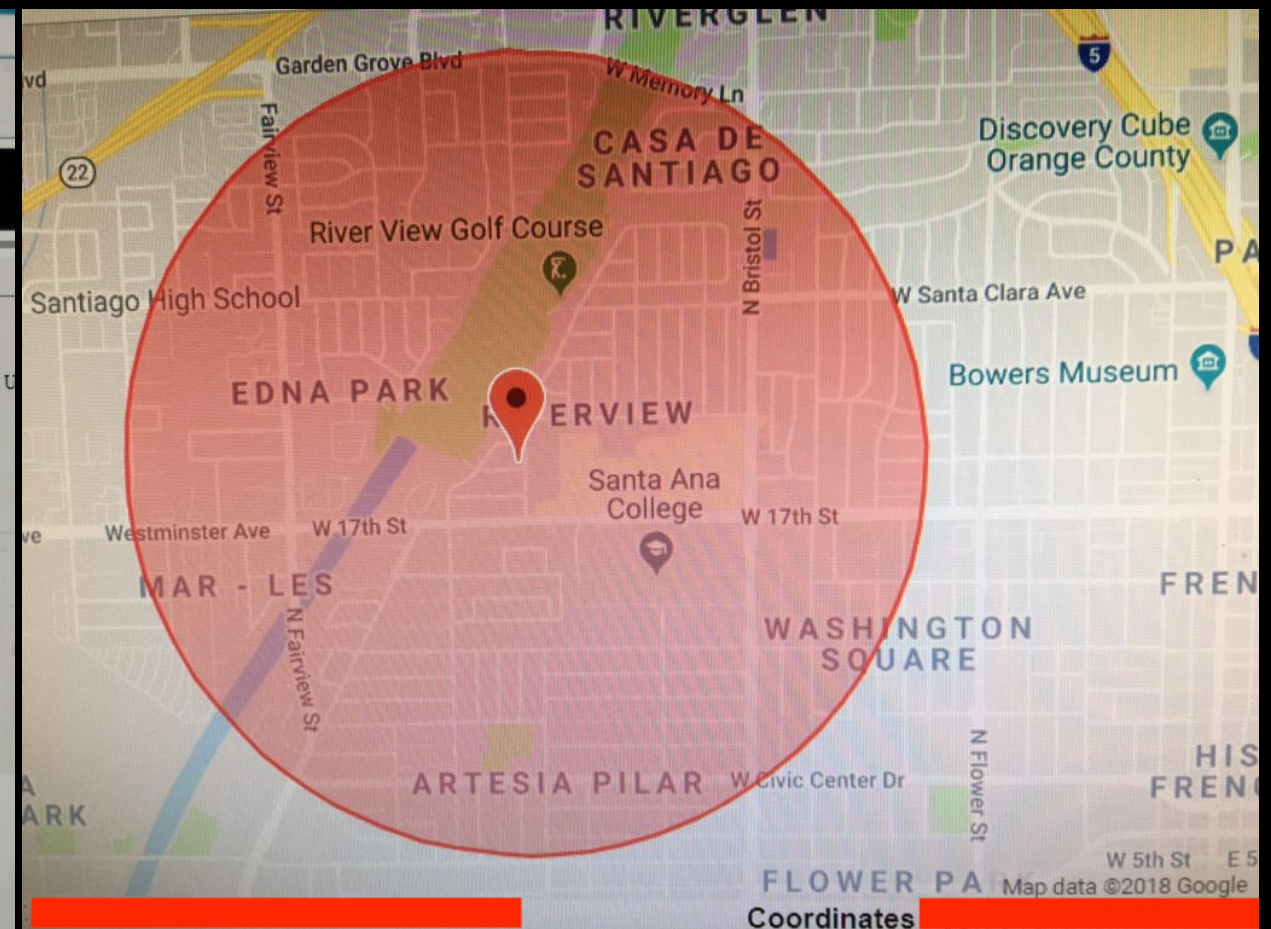
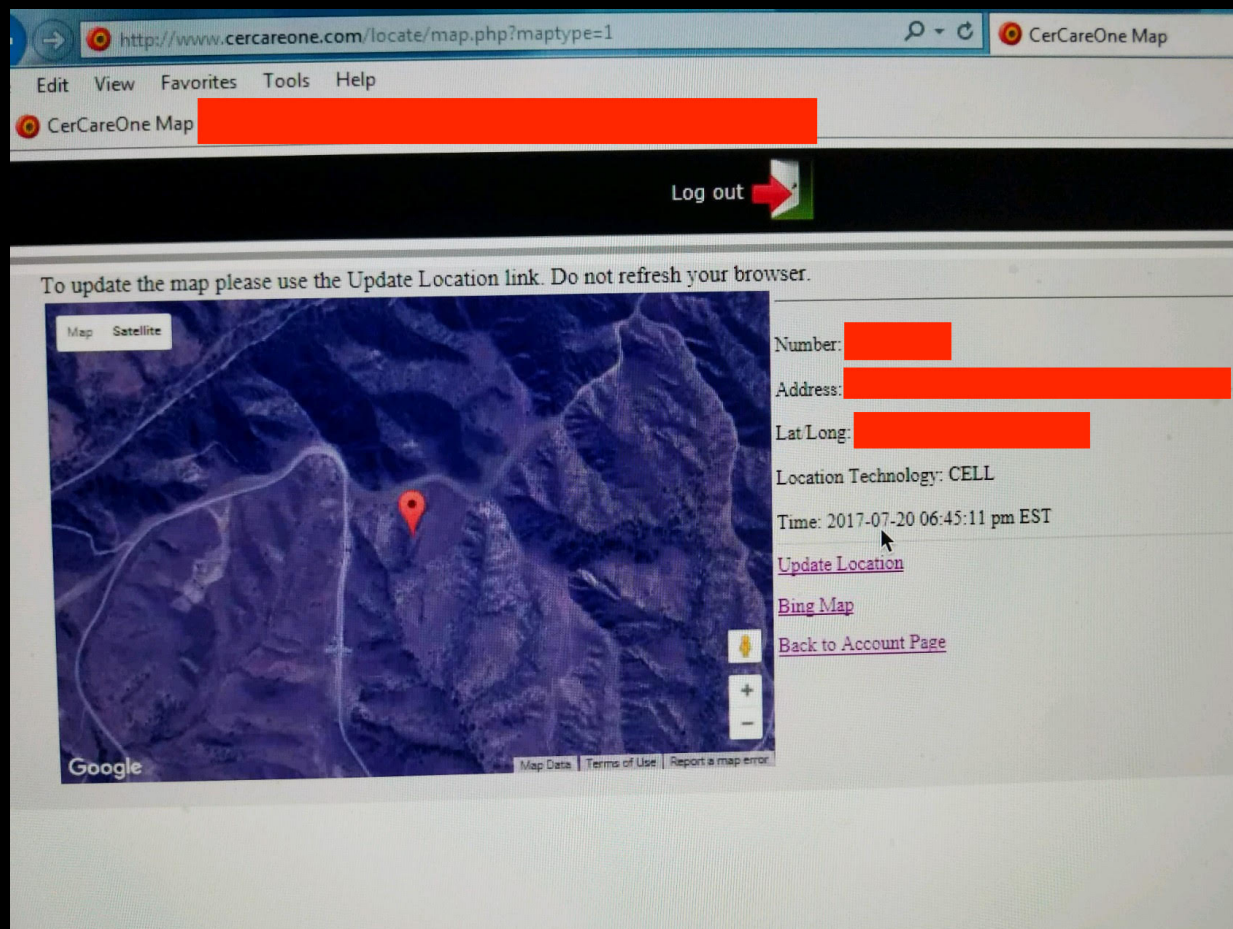
- How our source bought that location data

- How our source bought that location data
- The supply chain of location data, and the different roles companies play in it

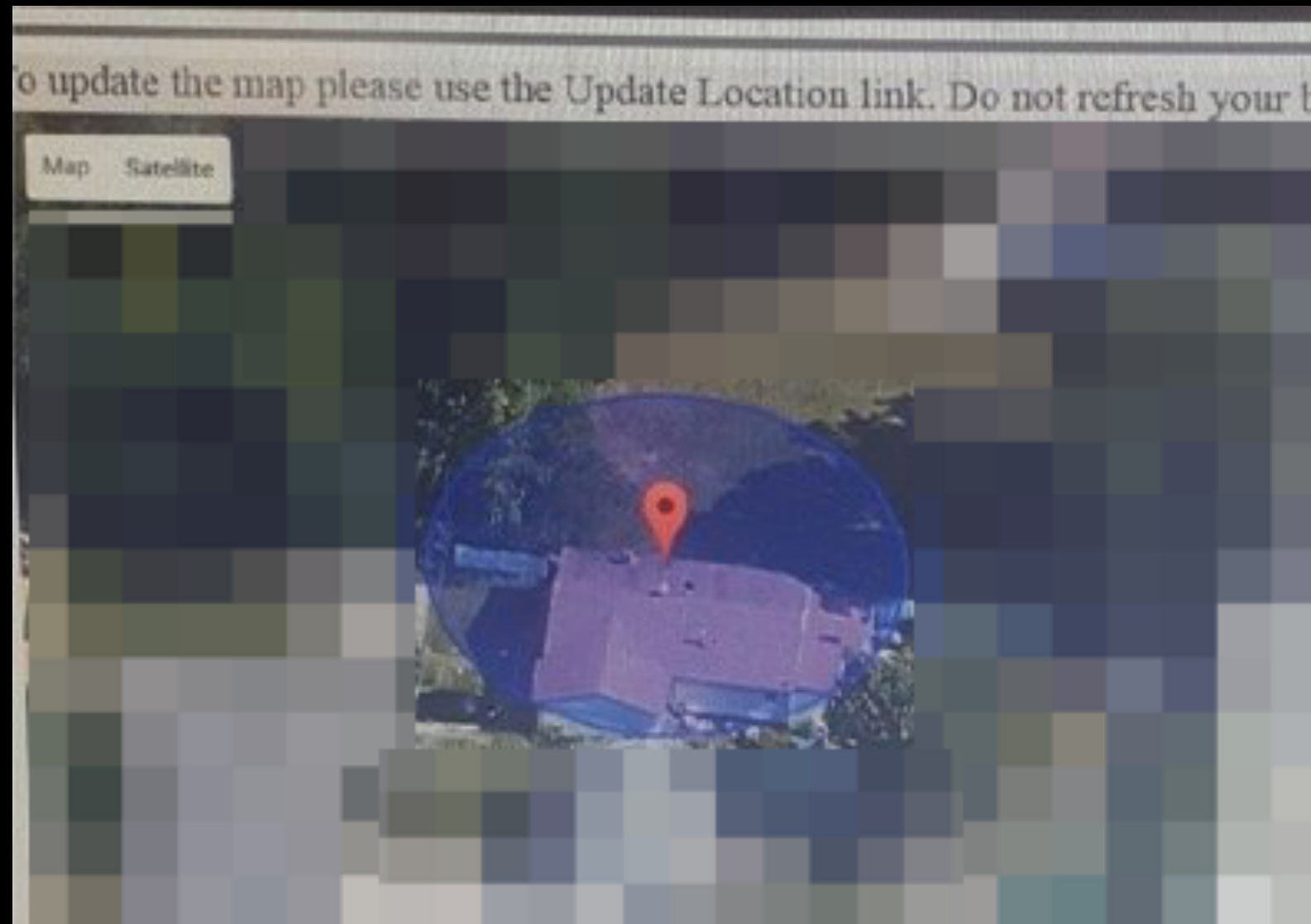
- How our source bought that location data
- The supply chain of location data, and the different roles companies play in it
- Leaked documents which show the scale of this location data market—it's not a one-off

- How our source bought that location data
- The supply chain of location data, and the different roles companies play in it
- Leaked documents which show the scale of this location data market—it's not a one-off
- How people are still getting location data out of the main telecoms through different means, and how that black market trade works

- Cell tower data
- Few blocks +



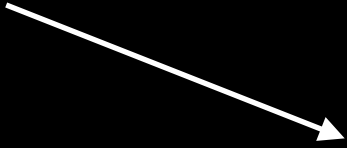
- Assisted GPS (A-GPS)
- Metres
- Where inside a building



How the hell did he do that???

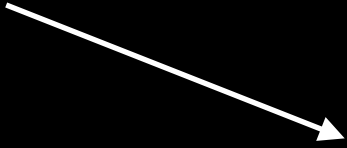
Carriers

Carriers

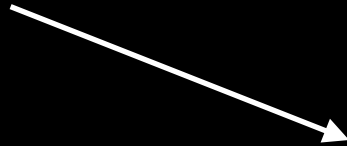


‘Location Aggregators’

Carriers



'Location Aggregators'



Data Brokers

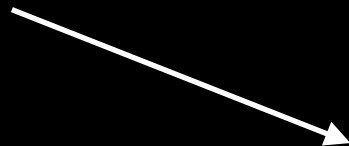
Carriers



'Location Aggregators'



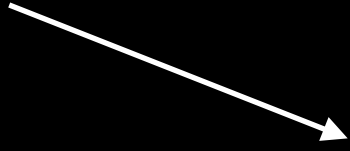
Data Brokers



End User Clients

T-Mobile®

T-Mobile®



Solutions - Consent



- Remove the consent requirement of stating that information is being released by the “carrier”.
- Instead, allow more flexible language, such as:
 - *“You authorize the bank and its service providers to use your mobile account for verifying your identity and protecting you from fraud.”*

- Make the release of carrier data opt-out, rather than opt-in, when it is being used to prevent fraud and identity theft.

- Create a national registry for consumers to opt-in to allow their mobile information to be used for fraud prevention purposes.

Solutions - Consent

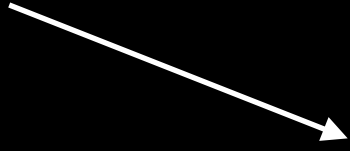


- Remove the consent requirement of stating that information is being released by the "carrier".
- Instead, allow more flexible language, such as:
 - *"You authorize the bank and its service providers to use your mobile account for verifying your identity and protecting you from fraud."*

- Make the release of carrier data opt-out, rather than opt-in, when it is being used to prevent fraud and identity theft.

- Create a national registry for consumers to opt-in to allow their mobile information to be used for fraud prevention purposes.

T-Mobile®



VERIFY A LOCATION

Mobile Device Verify can also confirm the location of a device based on a submitted number, returning helpful location information including:

- Verification of submitted location
- Current/last geolocation of the device with a timestamp
- Geolocation latitude and longitude coordinates
- Estimated location accuracy given available towers for triangulation
- Proximity of current location to submitted location

VERIFY AND MONITOR - BOTH ACCOUNT AND LOCATION

Mobile Device Verify also offers a powerful monitoring feature whereby the account and location information can be verified, and you can set up monitoring with control over the weeks, days and even hours that location on a device is checked as well as the start and end dates of monitoring. On-demand reporting is available throughout the duration of a monitoring period.

Identity Verification

(Select all services currently planned for use and/or testing)

Mobile Device Verification *

	Tier 1	Tier 2	Tier 3	Tier 4	Tier 5	Tier 6
	1-250	251-1,000	1,001-5,000	5,001-10,000	10,001-20,000	20,001 +
- Mobile Device Account Verification ¹ <input type="checkbox"/>	\$0.25	\$0.23	\$0.20	\$0.18	\$0.17	\$0.16
- Mobile Device Account & Location Verification ² <input type="checkbox"/>	\$4.95	\$4.46	\$3.96	\$3.56	\$3.32	\$3.22
- Mobile Device Account & Location Verification Monitoring (per device) ³ <input type="checkbox"/>	\$12.95	\$11.66	\$10.36	\$9.32	\$8.68	\$8.42
- Mobile Device Verification Report <input type="checkbox"/>	Included with Monitoring					

* All items are governed by FCRA guidelines. Charges are assessed for inquiries returning a "Hit" and "No Hit" result for all verification products.

¹ Verifies the submitted information against the mobile carrier billing account information.

² Verifies the submitted information against the mobile carrier billing account information & attempts to identify the mobile device location.

³ Verifies the submitted information against the mobile carrier billing account information & attempts to identify the mobile device location with subsequent location monitoring.

2. User's intended use of the above service(s) is: _____.

VERIFY A LOCATION

Mobile Device Verify can also confirm the location of a device based on a submitted number, returning helpful location information including:

- Verification of submitted location
- Current/last geolocation of the device with a timestamp
- Geolocation latitude and longitude coordinates
- Estimated location accuracy given available towers for triangulation
- Proximity of current location to submitted location

VERIFY AND MONITOR - BOTH ACCOUNT AND LOCATION

Mobile Device Verify also offers a powerful monitoring feature whereby the account and location information can be verified, and you can set up monitoring with control over the weeks, days and even hours that location on a device is checked as well as the start and end dates of monitoring. On-demand reporting is available throughout the duration of a monitoring period.

Identity Verification

(Select all services currently planned for use and/or testing)

Mobile Device Verification *

- Mobile Device Account Verification ¹

☐

Mobile Device Account & Location Verification ²

☐

Mobile Device Account & Location Verification Monitoring (per device) ³

☐

- Mobile Device Verification Report

☐

Tier 1	Tier 2	Tier 3	Tier 4	Tier 5	Tier 6
1-250	251-1,000	1,001-5,000	5,001-10,000	10,001-20,000	20,001 +
\$0.25	\$0.23	\$0.20	\$0.18	\$0.17	\$0.16
\$4.95	\$4.46	\$3.96	\$3.56	\$3.32	\$3.22
\$12.95	\$11.66	\$10.36	\$9.32	\$8.68	\$8.42
Included with Monitoring					

* All items are governed by FCRA guidelines. Charges are assessed for inquiries returning a "Hit" and "No Hit" result for all verification products.

¹ Verifies the submitted information against the mobile carrier billing account information.

² Verifies the submitted information against the mobile carrier billing account information & attempts to identify the mobile device location.

³ Verifies the submitted information against the mobile carrier billing account information & attempts to identify the mobile device location with subsequent location monitoring.

2. User's intended use of the above service(s) is: _____.

Motor Vehicle Sales

Solutions for decisioning, fraud detection and collections, all in one place.



A complete suite for used car, buy here-pay companies.

Property Management

Know who you're leasing to, before you sign a contract.



MicroBilt provides a complete set of tenant screening and fraud detection tools for landlords and property management companies.

Motor Vehicle Sales

Solutions for decisioning, fraud detection and collections, all in one place.



A complete suite for used car, buy here-pay companies.

Property Management

Know who you're leasing to, before you sign a contract.



MicroBilt provides a complete set of tenant screening and fraud detection tools for landlords and property management companies.

Motor Vehicle Sales

Solutions for decisioning, fraud detection and collections, all in one place.



A complete suite for used car, buy here-pay companies.

Property Management

Know who you're leasing to, before you sign a contract.



MicroBilt provides a complete set of tenant screening and fraud detection tools for landlords and property management companies.

T-Mobile®



BAIL INTEGRITY SOLUTIONS

T-Mobile®



BAIL INTEGRITY SOLUTIONS

MY SOURCE

T-Mobile®



BAIL INTEGRITY SOLUTIONS

MY SOURCE

MOTHERBOARD

Welcome to CerCareOne

Thank you for visiting our site, however, it is currently under construction.



Welcome to CerCareOne

Thank you for visiting our site, however, it is currently under construction.



Email Address:

Password:

Login

Invalid login information.

☐ Remember my email address.

Accounts

Company	Username	Numbers	Activity	Billing
L	je	Numbers	Activity	Billing
#	b	Numbers	Activity	Billing
00	tu	Numbers	Activity	Billing
00	L	Numbers	Activity	Billing
10	je	Numbers	Activity	Billing
12	y	Numbers	Activity	Billing
15	1	Numbers	Activity	Billing
15	c	Numbers	Activity	Billing
15	to	Numbers	Activity	Billing
15	B	Numbers	Activity	Billing
24	2	Numbers	Activity	Billing
24	2	Numbers	Activity	Billing
24	w	Numbers	Activity	Billing
24	g	Numbers	Activity	Billing
20	j.	Numbers	Activity	Billing
20	g	Numbers	Activity	Billing
30	a	Numbers	Activity	Billing
A	d	Numbers	Activity	Billing
A	a	Numbers	Activity	Billing
A	a	Numbers	Activity	Billing
A	a	Numbers	Activity	Billing
A	k	Numbers	Activity	Billing
A	b	Numbers	Activity	Billing
A	B	Numbers	Activity	Billing
A	b	Numbers	Activity	Billing

18	818		2017-06-27 13:13:50	2		Found	CELL:582
19	818		2017-06-27 11:11:33	2		Found	CELL:448
20	952		2017-06-26 19:49:58	6		Found	A-GPS:21
21	952		2017-06-26 19:48:04	6		Found	A-GPS:18
22	952		2017-06-26 19:46:27	6		Found	A-GPS:13
23	952		2017-06-26 19:45:08	6		Found	A-GPS:13
24	952		2017-06-26 19:43:30	6		Found	A-GPS:13
25	952		2017-06-26 19:41:56	6		Found	A-GPS:21
26	651		2017-06-26 16:53:02	6		Found	A-GPS:31
27	562		2017-06-26 15:27:35	6		Found	CELL:3502

- e. The subscriber agrees to use their best efforts to safeguard their username and password and may be prompted periodically to change the password being used.
- f. The subscriber is aware of and agrees to supply to Cercareone.com a maximum of two (2) IP addresses from which access to Cercareone.com will be limited to further ensure privacy and limited access & attests that said IP addresses belong to the subscriber.

e. The subscriber agrees to use their best efforts to safeguard their username and password and may be prompted periodically to change the password being used.

f. The subscriber is aware of and agrees to supply to Cercareone.com a maximum of two (2) IP addresses from which access to Cercareone.com will be limited to further ensure privacy and limited access & attests that said IP addresses belong to the subscriber.

- e. The subscriber agrees to use their best efforts to safeguard their username and password and may be prompted periodically to change the password being used.
- f. The subscriber is aware of and agrees to supply to Cercareone.com a maximum of two (2) IP addresses from which access to Cercareone.com will be limited to further ensure privacy and limited access & attests that said IP addresses belong to the subscriber.

37	9		2017-06-26 11:35:47	64.	
38	9		2017-06-26 11:04:51	64.	
39	9		2017-06-26 10:46:45	64.	
40	6		2017-06-23 11:37:40	71.	
41	4		2017-06-22 21:24:38	131	
42	6		2017-06-22 21:19:30	131	
43	2		2017-06-21 08:53:31	87.	
44	2		2017-06-21 08:52:49	87.	
45	2		2017-06-20 20:48:18	87.	

Administration

[Accounts](#)

[Reports](#)

[Plans](#)

[Search](#)

Billing history for [REDACTED]@gmail.com

Date	Amount	Transaction ID
2016-09-15 13:58:47	\$1100	[REDACTED]
2017-02-17 12:34:16	\$1100	[REDACTED]

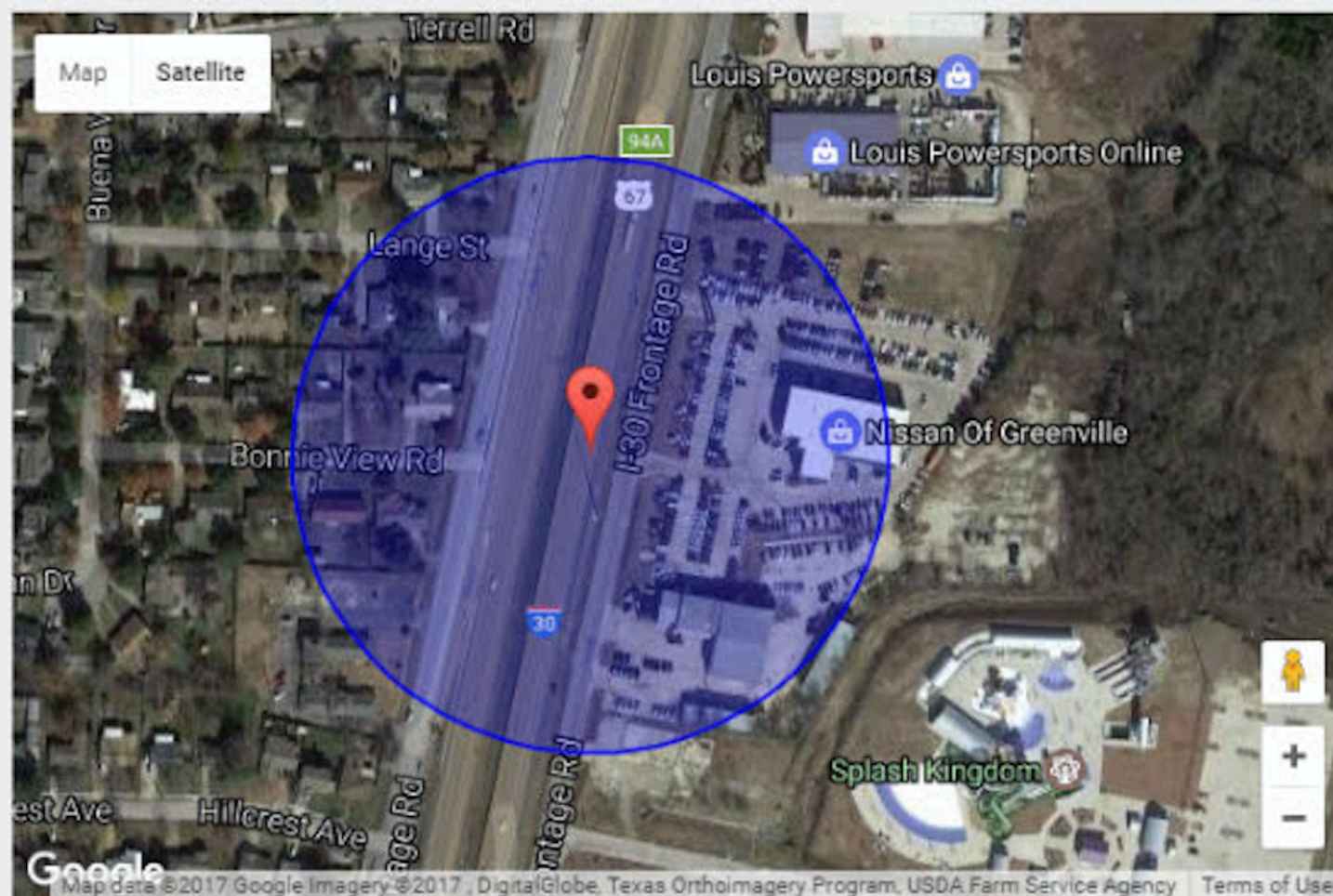



CerCareOne

Log out 

Nova Systems - Dan Grable 

To update the map please use the Update Location link. Do not refresh your browser.



Number: 

Address: 6309 I-30, Greenville, TX 75402, USA

Lat/Long: 33.104714,-96.103163 r134

Location Technology: A-GPS

Time: 2017-05-30 11:14:23 pm EST

[Update Location](#)

[Bing Map](#)

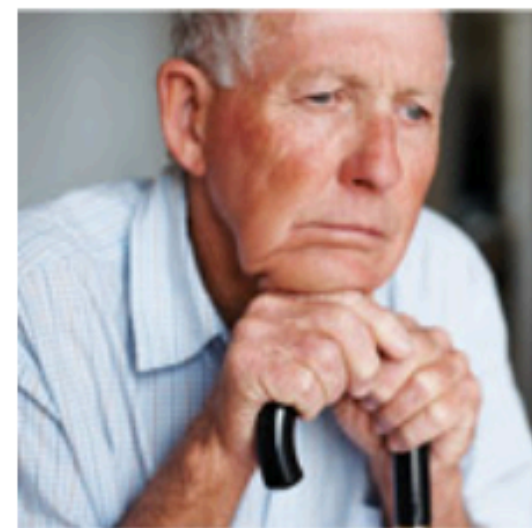
[Back to Account Page](#)

Pay per Ping balance: \$226.00

**Can't Find Your
Cell Phone?**

**Can't Find Your
Loved One?**

WE CAN HELP!



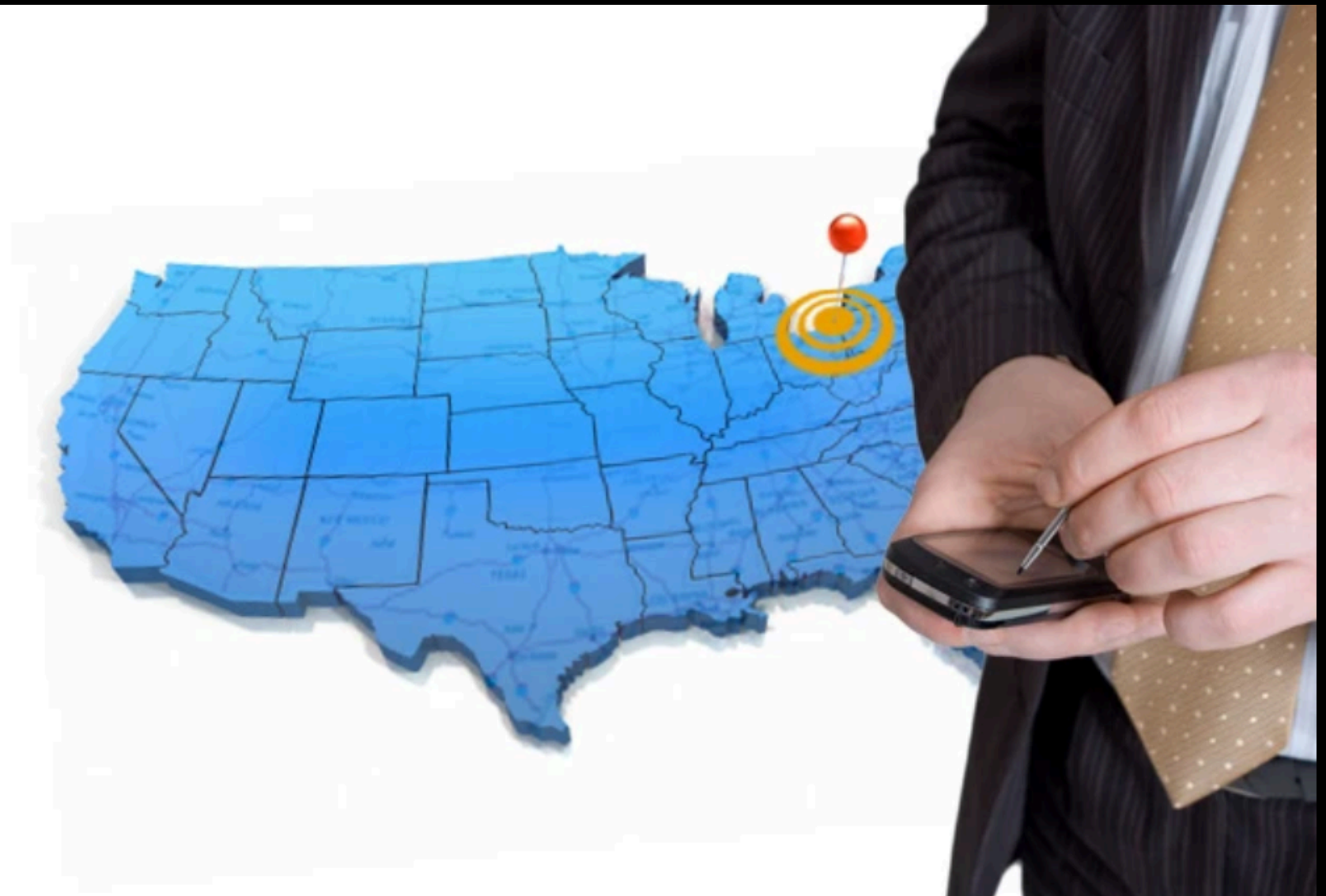
verizon✓

Instantly Locate Defendant Cell Phone

- All major carriers - Verizon, AT&T, Sprint & T-Mobile
- Tower triangulation and GPS (if available)
- See location on Google Maps

Only \$7.50
No response-no charge

ORDER NOW

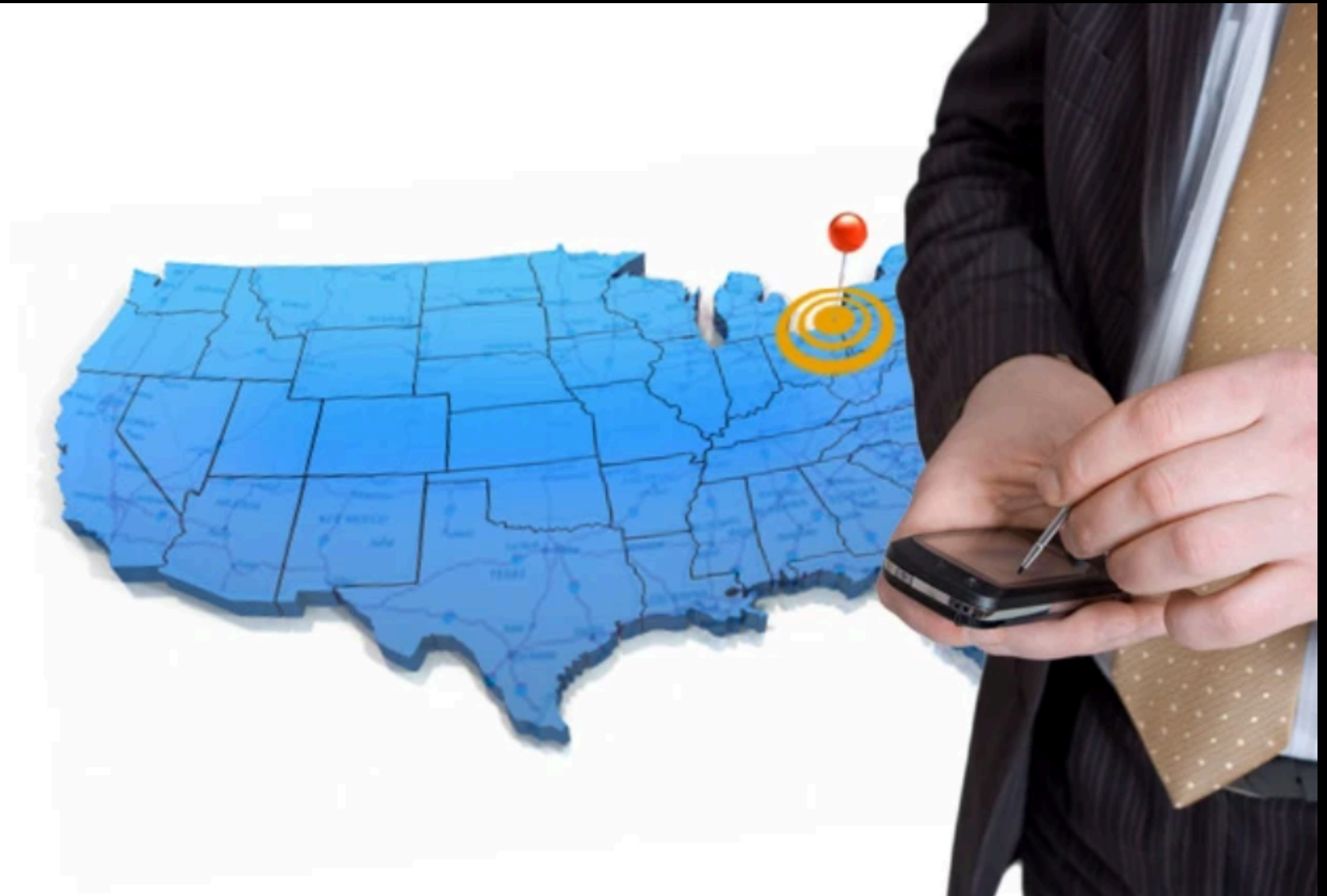


Instantly Locate Defendant Cell Phone

- All major carriers **Verizon,** AT&T, Sprint & T-Mobile
- Tower triangulation and GPS (if available)
- See location on Google Maps

Only \$7.50
No response-no charge

ORDER NOW



ALL COVERAGE

Products

PhoneID Standard

PhoneID Contact

PhoneID Contact Plus

PhoneID Contact Match

PhoneID Live

PhoneID Number Deactivation

PhoneID Subscriber Status

PhoneID Current Location Plus

PhoneID Device Info

PhoneID Porting History

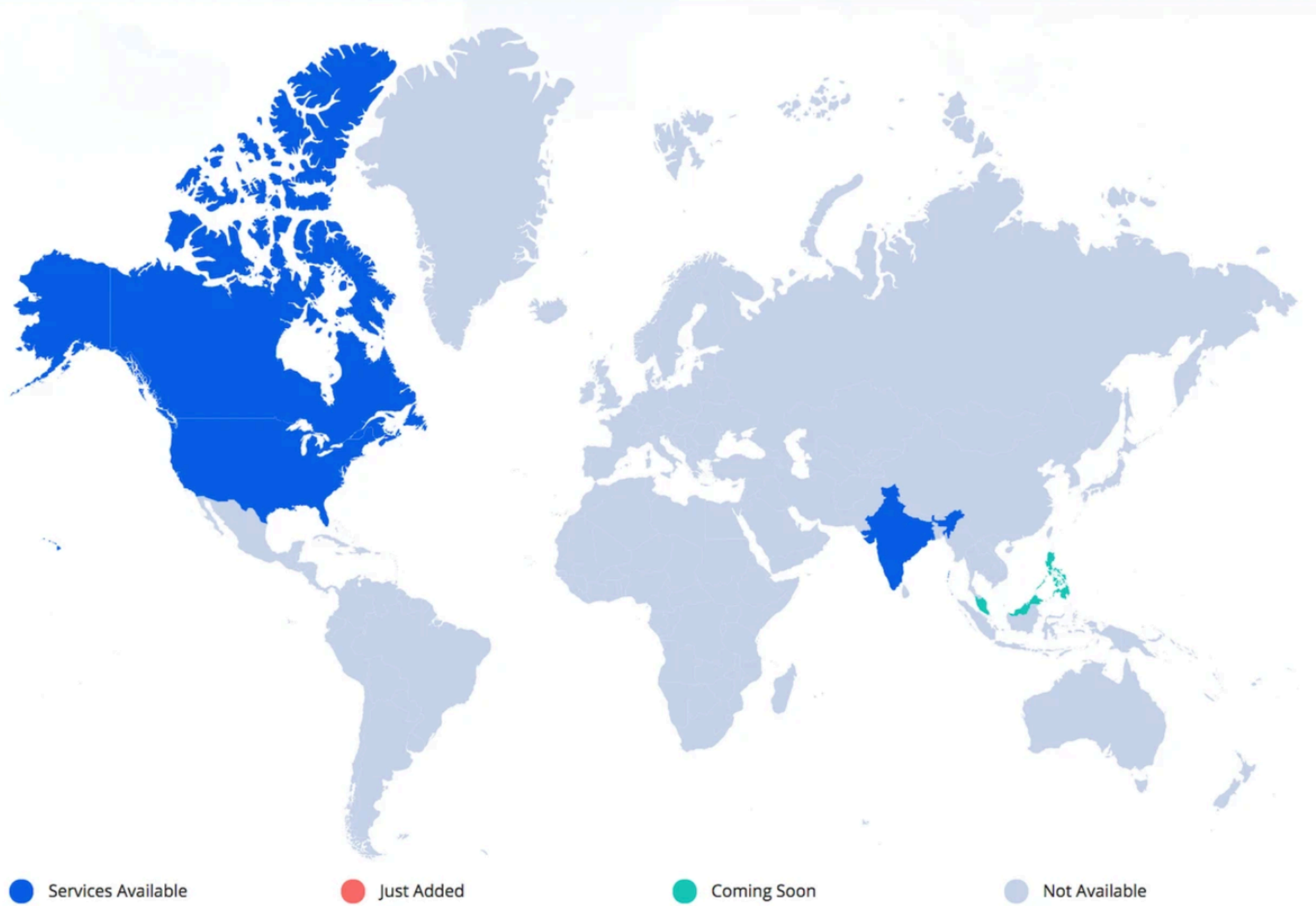
PhoneID Porting Status

Score

SMS

Voice

Anonymous SMS



AT&T to Stop Selling Location Data to Third Parties After Motherboard Investigation

After Motherboard found that AT&T, T-Mobile, and Sprint were selling their customers' phone location data to third parties, AT&T has decided to stop service for all third-party location aggregators, an essential part of the data supply chain.

By Joseph Cox

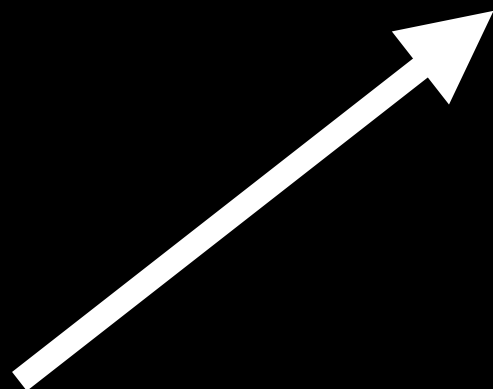
Sprint to Stop Selling Location Data to Third Parties After Motherboard Investigation

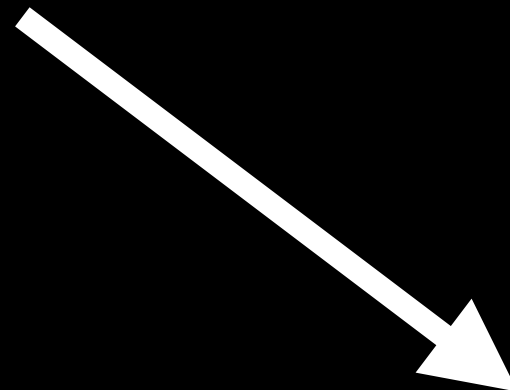
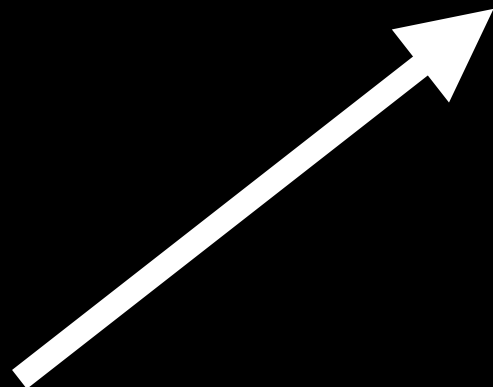
After AT&T and T-Mobile said they would stop selling their customers' phone location data to third parties, Sprint followed suit. A Motherboard investigation found all three telcos selling data that ultimately ended up in the hands of bounty hunters.

By Joseph Cox

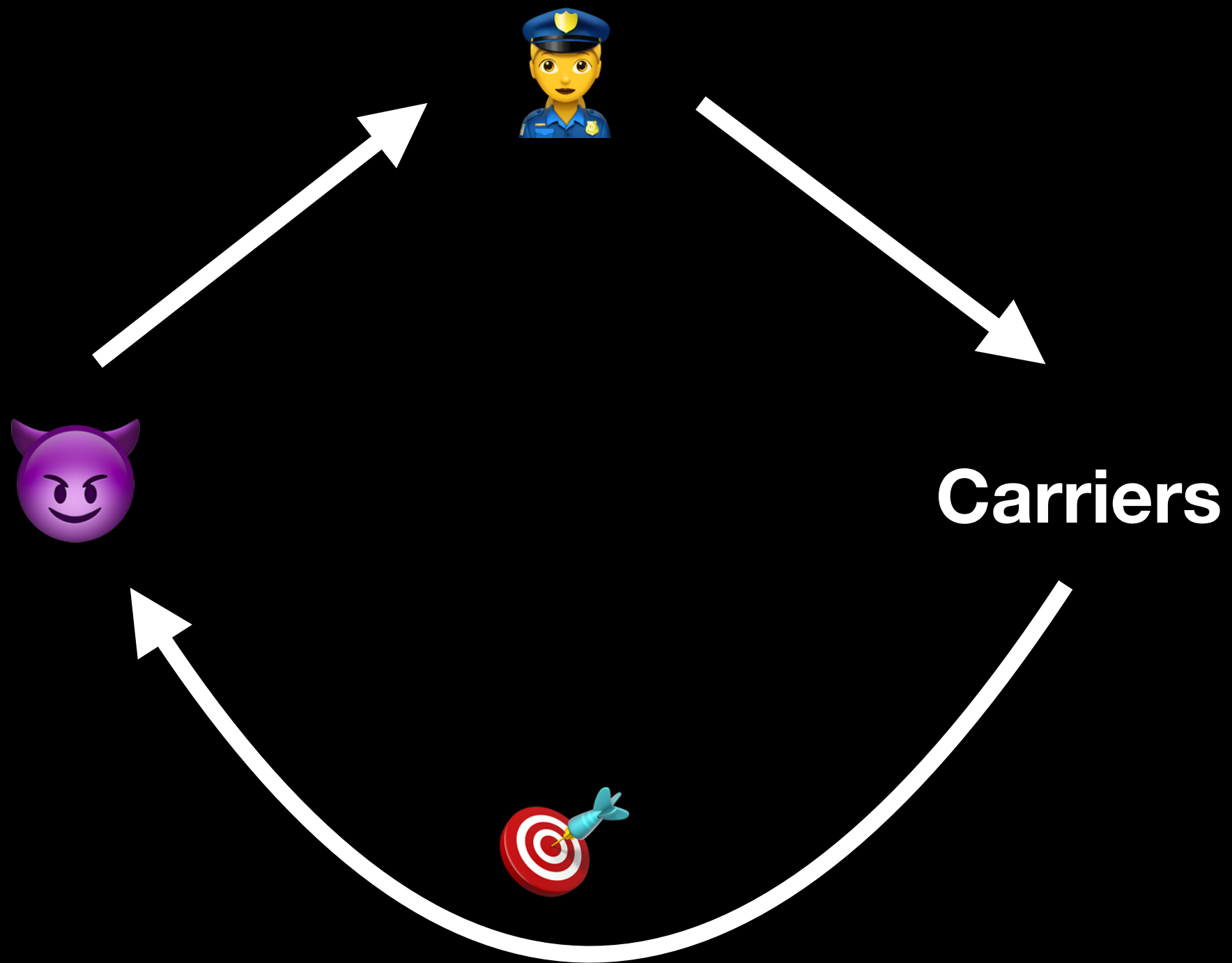
But wait, that's not the end...





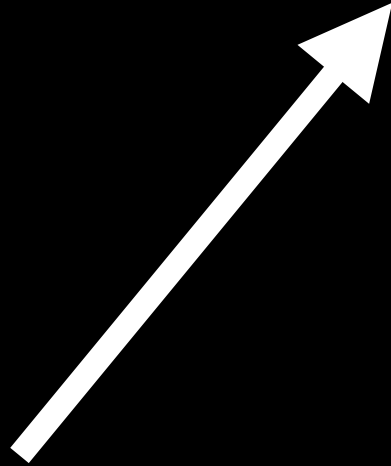


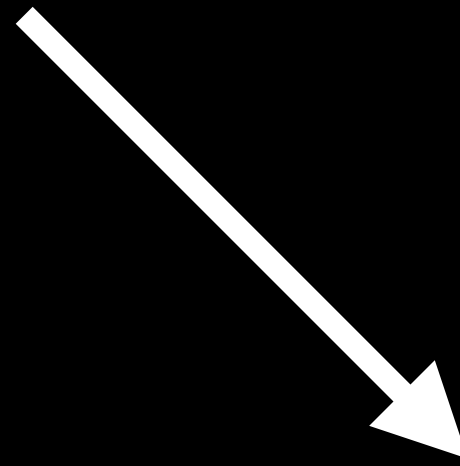
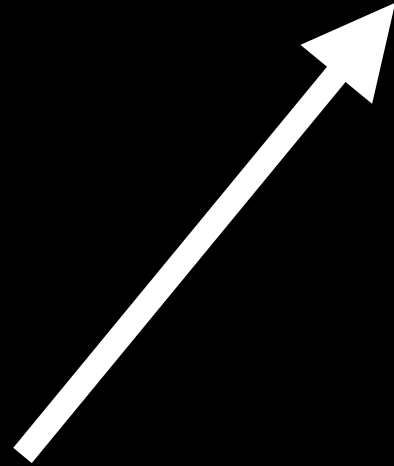
Carriers



John Edens

John Edens





John Edens

T-Mobile®



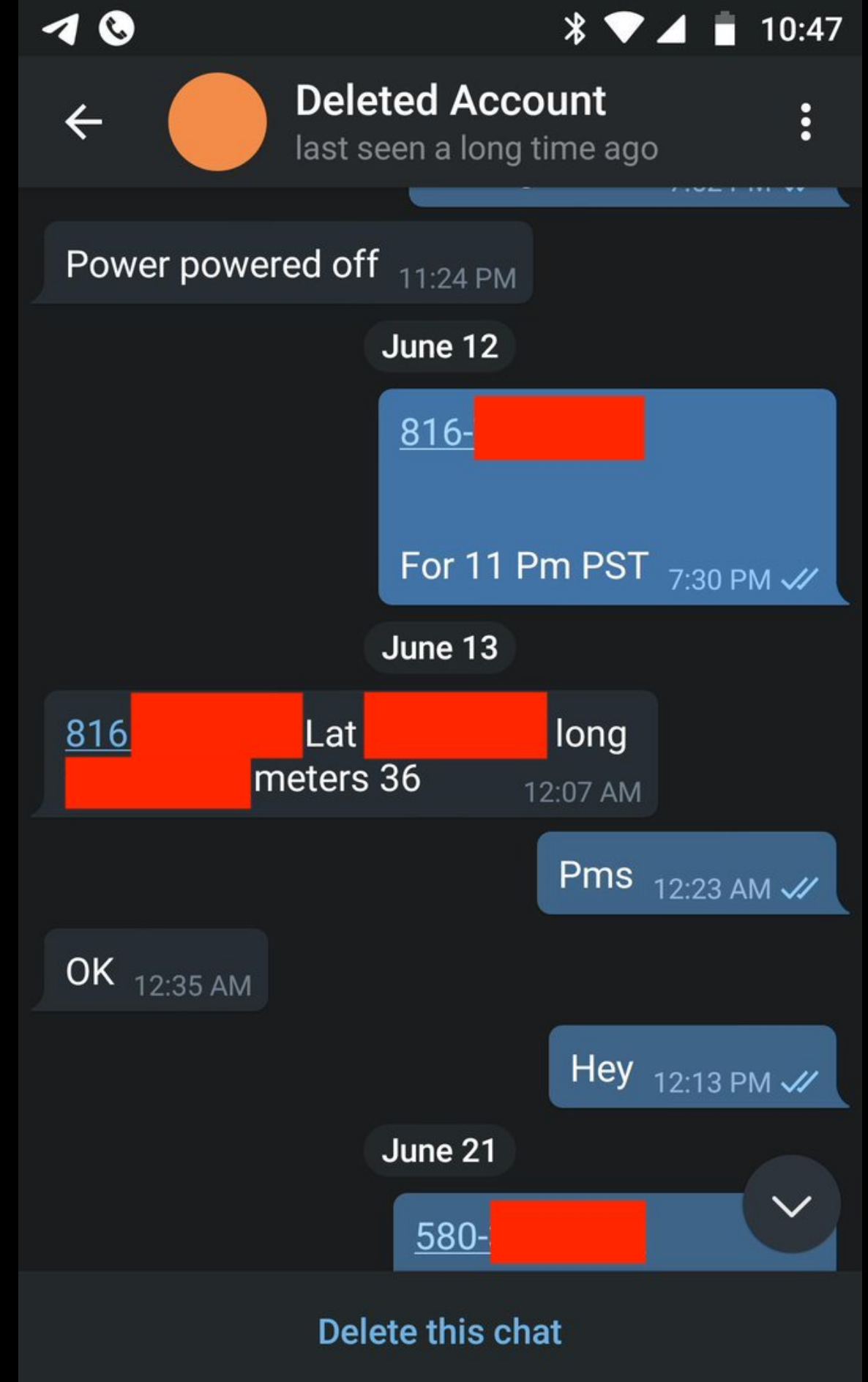
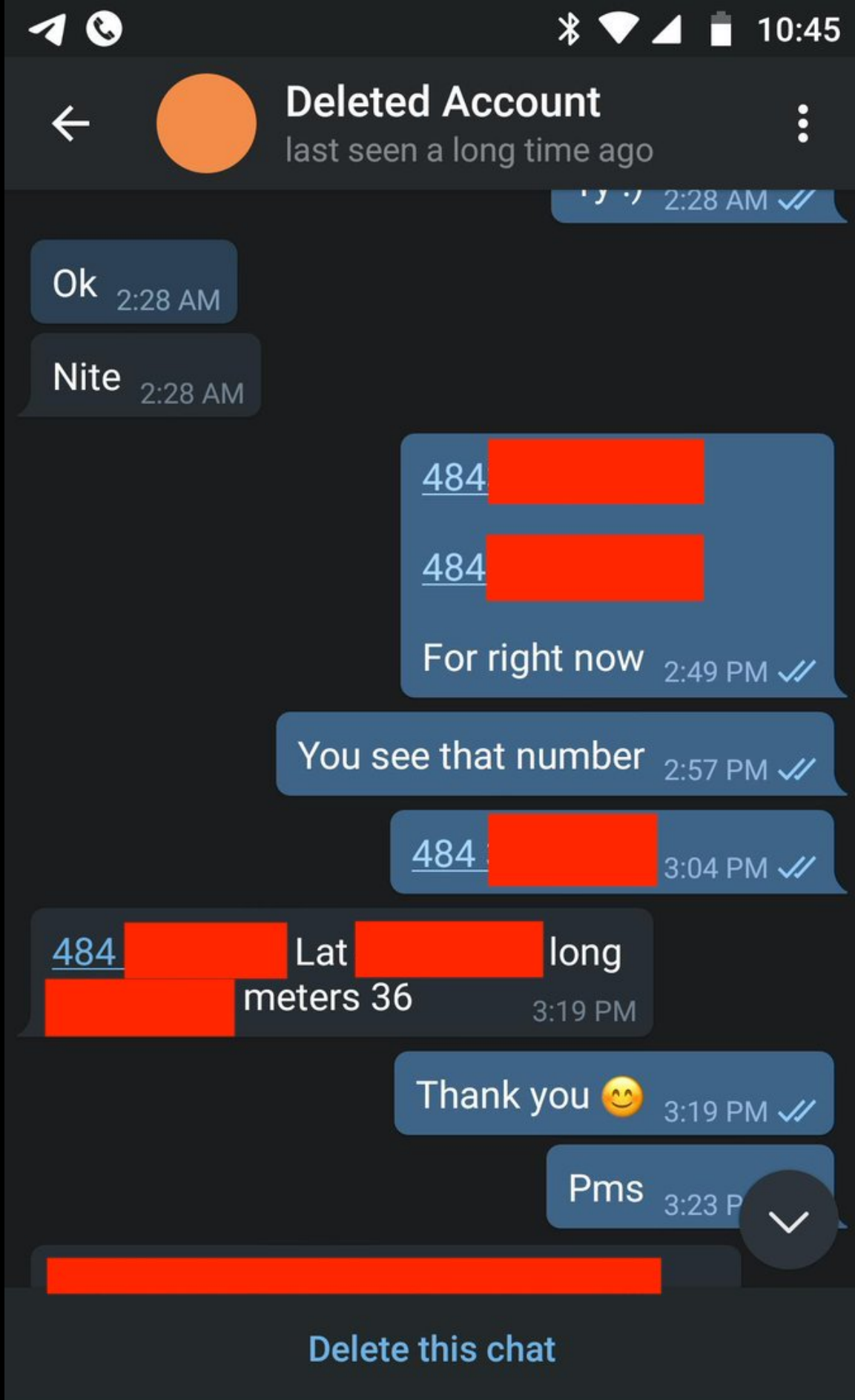
John Edens

T-Mobile®

Cc: jeff.cromer@gafugitivetaskforce1.net

Location of 404988 [REDACTED] at 10/21/2014 11:14:28 AM Pacific Daylight
Time === Result === Lat: [REDACTED] Lon: [REDACTED] Uncertainty:
810m [https://maps.google.com/maps?q=\[REDACTED\]](https://maps.google.com/maps?q=[REDACTED])





You know more about location data, or anything else you think should be published?

Signal: +44 20 8133 5190

Wickr: josephcox

Jabber: jfcov@jabber.ccc.de

Email: joseph.cox@vice.com